

International 2.4mR Class Association, Technical Committee

$$R = (L + 2d - F + \sqrt{S}) / 2.37 = 2.4$$


2.4mR TC MEETING 6 August 2025

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Stellan Berlin (SWE)
Thomas Jatsch (GER)
Jon Bjorklund (NOR)
IM Keith Gordon (GBR)

Apologies

Rikard Bjurstrom (FIN)

General Business

1. Norway Official Measurer Training Program
2025.08.06 2.4mR Official Measurer training video production ongoing.
2. Ballast Advice
2025.08.06 Ballast advice note issued for website publication.
3. 2.4 NOD Certificate Procedures Review
2025.08.06. 2.4 NOD certificates on ICA website access and certification procedures review ongoing.
4. World Sailing Mainsail Upper Batten CRC approval
2025.08.06 2.4mR Mainsail Upper Batten CRC issued by World Sailing with effective date 16 June 2025. 2.4 NOD Mainsail Upper Batten CRC issued with effective date 16 June 2025. Mainsail Upper Batten outer pocket length is now UNLIMITED.
5. Lifting Eye Safety Warning
2025.08.06 Safety Warning issued for EC advice to NCAs.
We have been advised of another incident where a boat's lifting eyes have failed while lifting a 2.4mR boat.
Boat owners are advised that the crane loop of any lifting strop should be above deck level as a minimum so that the lifting load is primarily vertical. If the lifting load is primarily horizontal with the lifting strop crane loop low in the cockpit the lifting eyes can be ripped out of a 2.4mR boat.
We recommend that lifting strops are regularly checked for wear and tear and replaced in accordance with any use by date.
We also recommend that lifting eyes are regularly checked to ensure that there are no defects in the lifting eye or fibreglass mounting.
6. 2.4 NOD Super 3 Update
2025.08.06 2.4 NOD boat marketing including pricing preparation ongoing. EC to review 2.4 NOD boat marketing opportunities with Super 3.
7. 2.4 NOD Ontario Yachts Update
2025.08.06 2.4 NOD Accredited Builder agreement executed by ICA and Ontario Yachts 11 February 2025. Ontario Yachts 2.4 NOD laminate design approved 16 January 2025. 2.4 NOD prototype 1 boat production underway, hull complete, deck ready (section 0 width to be corrected with spreader bar for prototype deck installation), buoyancy foam CNC cut, ballast cast, Superspar spars rigged, weight control ongoing. 2.4 NOD prototype boat 2 hull commenced. Next factory inspection due early September 2025.
2025.08.06 Application for ICA funding for official measurers costs to assist builder approved by EC to €600.

TC agreed mould options (subject to purchaser agreement) as follows:

- ❖ Traveller track recess
- ❖ Headsail boom fitting
- ❖ Cockpit headsail sheet mountings

Key build issues:

- ❖ station 0 error (3mm) rectification
- ❖ width control
- ❖ weight control
- ❖ hull/keel stiffness control
- ❖ chainplate deflection control
- ❖ lifting eye weight capacity
- ❖ cockpit mould front straight (not rounded)
- ❖ ballast lifter and keel plug fixings to be metric (not imperial).

8. **Linked4sailing 2.4mR Builder Accreditation**

2025.08.06 Linked4sailing request for builder accreditation ongoing. Linked4sailing noted 30 2.4mR boats built to date supporting sailing programs, 2.4mR measurement required.

9. **2.4mR Inclusive World Championship 2025**

2025.08.06 Peter Russell issued NOR guidance and associated documents to 2025 World Championship Organising Authority - Fraglia Vela Malcesine on 1 January 2025 as follows:

- ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2025 TC NOR ADVICE v. 02
- ❖ 2.4mR World & Continental Championship Management Manual 2024 (v. 11)
- ❖ 2.4mR WORLD CHAMPIONSHIP INSPECTION PLAN 2024
- ❖ 2.4mR WORLD CHAMPIONSHIP FINLAND 2023 NOR
- ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2019 NOR

No advice from World Sailing regarding 2.4mR Para World Championship 2025 received to date.

2025.08.06 NOR approved by Italian Sailing Federation, NOR published and entries opened by Fraglia Vela Malcesine on 4 June 2025.

2025.08.06 TC is available to assist with SI documentation if required. Keith Gordon/Thomas Jatsch noted that no request for equipment inspection assistance has been received to date.

10. **2.4mR Inclusive World Championship 2026**

2025.08.06 Peter Russell issued NOR advice and associated documents to 2026 World Championship Organising Authority – The Royal Water Sports Association: Koninklijke Watersport Vereniging Sneek (KWS), Klaas Weissenbach, Frank Havik,

- ❖ 2.4mR WORLD CHAMPIONSHIP SNEEK 2026 TC NOR ADVICE v. 03
- ❖ 2.4mR World & Continental Championship Management Manual 2024 (v. 11)
- ❖ 2.4mR WORLD CHAMPIONSHIP INSPECTION PLAN 2024
- ❖ 2.4mR WORLD CHAMPIONSHIP NETHERLANDS 2017 NOR
- ❖ 2.4mR WORLD CHAMPIONSHIP FINLAND 2023 NOR
- ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2025 NOR

11. **Norway 2.4mR eMeasurement Form**

2025.08.06 2.4mR pdf measurement form corrections proofing ongoing.

12. **Measurer Accreditation**

2025.08.06 International Measurer - Thomas Jatsch (GER) advised next World Sailing IM seminar is Denmark late 2025, funding for travel approved by EC.

2025.08.06 Official Measurers – Martin Pascoe (GBR) now RYA accredited Official Measurer. Shaun Ritson (AUS) now AS accredited Official Measurer.

13. **Safety Advice**

2025.08.06 Thomas Jatsch safety training advice and photos update ongoing.

14. **2.4 NOD Boat Beam Dimensions Review**

2025.08.06 Bruce Millar advised 13 2.4 NOD boats measured April 2025 – beam discrepancies up to 4mm noted but templates comply. Schedule of discrepancies to be prepared to assist with 2.4 NOD section J.1 Dimensions tolerances review. Rikard Bjurström suggested tolerances be retained but consider grandfathering of non-compliant boats.

15. Towing Fitting Review

2025.08.06 Current class rule «*A suitable fitting or system in the bow area to enable the boat to be towed.*» Draft towing fitting advice reviewed.

- ❖ Does the bow towing fitting need to be installed to enable the boat to be towed with the tow rope secured to the bow towing fitting as is intended by the rule? OR As is current practice, does the bow towing fitting need to be installed to enable the tow rope to pass through the bow towing fitting and secured at the mast or equivalent?
- ❖ Does the bow fitting need to allow for 10mm diameter towing ropes as is standard practice for rescue craft?
- ❖ Does the bow fitting allow for a person on a rescue craft to fix a tow rope to the boat with no sailor aboard?

TC noted forestay fittings to all boats may not be structurally adequate for towing boats which may be swamped and subject to high loads in wave conditions. TC noted that the rule review stems from updating safety ADVICE and needs to consider intent and current practice.

16. Compartment Inspection Opening Review

2025.08.06 Current class rule «*Watertight compartments shall allow for inspection with a hatch opening of minimum 100 mm in diameter.*» Draft compartment inspection advice reviewed.

- ❖ Does the side compartments require inspection openings as they may be holed in a collision which could affect boat buoyancy?
- ❖ Does the compartment definition be based on bow/stern compartments or minimum volume?

TC noted that rule review stems from updating safety ADVICE noting that all compartments for buoyancy equipment need to allow for inspection with water in and air out in buoyancy checking.

17. PFD Regulations Review

2025.08.06 PFDs are required to comply with ISO 12402-5:2020. PFDs manufacturers typically recommend replacement after ten years - the date of manufacture is required to be printed on pfd's. The replacement date for pfd's is affected by frequency of usage, exposure to the elements and wear and tear. The standard requires pfd's to be maintained in good condition – a buoyancy test to 50N can be used if required. Thomas Jatsch to confirm World Sailing PFD regulations.

18. 2.4mR Class Rules Review:

2025.08.06 2.4mR class rule review deferred to September 2025 meeting.

- ❖ 2.4mR hull materials D.3.2 (a) reinforcement plates
- ❖ 2.4mR Waterline Declaration
- ❖ 2.4mR Builder Declaration
- ❖ 2.4mR Production Boat Measurement and Certification
- ❖ 2.4mR boats to be nearly alike as possible with regard to any matter which may have influence on the basic speed or handling

19. Buoyancy Certifiers

2025.08.06 TC approved the following persons as buoyancy certifiers.

- ❖ Martin Koller (GER) recommended by Thomas Jatsch
- ❖ Jan Rischard (GER) recommended by Thomas Jatsch
- ❖ Christian Bittner (GER) recommended by Thomas Jatsch
- ❖ Frank Havik (NED) recommended by Henk van Heuveln

20. General Business:

2025.08.06 Keith Gordon noted World Sailing requirements for Para events include sailor ID numbers.

Next Meeting

Canada	1.00pm Wednesday 3 September 2025
UK	8.00pm Wednesday 3 September 2025
Sweden	9.00pm Wednesday 3 September 2025
Norway	9.00pm Wednesday 3 September 2025
Germany	9.00pm Wednesday 3 September 2025
Finland	10.00pm Wednesday 3 September 2025
Australia	5.00am Thursday 4 September 2025

2.4mR TC WORK PROGRAM 2025

2.4mR Technical Committee

Peter Russell (AUS) Chairman
Bruce Millar (CAN)
Stellan Berlin (SWE)
Rikard Bjurstrom (FIN)
Thomas Jatsch (GER)

ICA 2.4 NOD Certification Administrator

Louise Anstey (CAN)

ICA IM

Keith Gordon (GBR) IM
Matti Muoniovaara (FIN)

1 World Sailing

TC to review World Sailing RRS and ERS for class rule compliance.

2 2.4mR Class

TC to review class documentation:

- ❖ Updated 2.4mR class rules issued by World Sailing 2 December 2024
- ❖ 2.4mR Measurement Manual 2020 (v. 9)
- ❖ 2.4mR eMeasurement Form
- ❖ 2.4mR Buoyancy **certificate** (v. 3)
- ❖ 2.4mR **certificate** template for NCA Certification Authorities

TC to seek World Sailing 2.4mR class rule change approval:

- ❖ 2.4mR buoyancy check additional weight
- ❖ 2.4mR mainsail top batten (refer 2025 eAGM)

TC to review 2.4mR class rule requirements:

- ❖ 2.4mR fittings D.9.1 (a) (1) towing fitting
- ❖ 2.4mR hull materials D.3.2 (a) reinforcement plates
- ❖ 2.4mR Waterline Declaration
- ❖ 2.4mR Builder Declaration
- ❖ 2.4mR Production Boat Measurement and Certification

3 2.4 NOD Class

TC to review class documentation:

- ❖ 2.4 NOD Class Rules 2024 v.2
- ❖ 2.4 NOD Construction Manual 2023 v.2
- ❖ 2.4 NOD Drawings J1 – Measurement Section, J2 – Templates, J3 – Deck layout, J4 - Section
- ❖ 2.4 NOD Measurement Manual 2020 (v. 9)
- ❖ 2.4 NOD Measurement Report New Boats (v.5), Measurement Report – Old Boats (v. 4), Optional Measurement Report Mast & Boom (v. 5)
- ❖ 2.4 NOD **certificate** template (v. 5)
- ❖ 2.4 NOD Accredited Builder stickers starting at number 1000

TC to amend 2.4 NOD class rules:

- ❖ 2.4 NOD mainsail top batten (refer 2025 eAGM)

TC to review 2.4 NOD class rule changes:

- ❖ 2.4 NOD buoyancy check additional weight
- ❖ 2.4 NOD templates J.2 stern template clearance
- ❖ 2.4 NOD fittings D.7.1 (a) (1) towing fitting
- ❖ 2.4 NOD hull datum section D.2.5 (b) sheerline

4 Measurement

TC to review 2.4mR and 2.4 NOD measurement manuals – IKEA principles (refer 2025 eAGM).

TC to provide advice on water tank design – Hasse Malmsten to issue collapsable tank design details (refer 2025 eAGM).

TC to review 2.4mR Official Measurer Requirements & Equipment 2023 advice.

TC to review 2.4 NOD template use and prepare 2.4 NOD template register.

5 Safety

TC to review safety advice – Thomas Jatsch to issue safety training notes and photos.

6 Buoyancy Checks

TC to review ICA Buoyancy Certifier assignments:

- ❖ Buoyancy Certifier applications need to demonstrate competency either by current or past measurement qualifications or endorsement by an Official Measurer.
- ❖ ICA Buoyancy Certifier is a Measurer role appointed by the ICA (not MNA) where the person needs to have knowledge of the Class Rules and the ERS, respect competitors and officials and be aware of conflicts of interest.

TC to maintain 2.4mR Buoyancy Certifier database.

TC to prepare ICA Buoyancy Certifier instruction video.

7 2.4 NOD Accredited Builders

TC to review 2.4 NOD Accredited Builder class rule compliance:

- ❖ 2.4 NOD Accredited Builder Application Process (v. 5)
- ❖ 2.4 NOD Accredited Builder Agreement (EC)
- ❖ 2.4 NOD Accredited Builder Boat Inspection Plan (v. 6)
- ❖ 2.4 NOD Accredited Builder Declaration Form (v. 3)
- ❖ 2.4 NOD scan prepared by *VmaxYachting* in high definition for 2.4 NOD Accredited Builders and low definition for general distribution (EC)
- ❖ 2.4 NOD scan data file agreement (EC)

The EC has executed 2.4 NOD Accredited Builder Agreements as follows:

- ❖ *SUPER 3 (United Kingdom) Brian Harding*
- ❖ *ONTARIO YACHTS (Canada) Andrew Macrae*

TC to manage 2.4 NOD prototype inspections and approvals

8 Official Measurer Training

TC to support 2.4mR Official Measurer training program.

- ❖ NCA obtains expression of interest in obtaining Official Measurer accreditation from interested persons and advises ICA of persons names and background.
- ❖ Interested persons attend National, Continental or World Championship events as Equipment Inspector for measurement introduction.
- ❖ Interested persons attend ICA 2.4mR measurement training program to enable interested persons to undertake 2.4mR measurement for external examiner review. 2.4mR training could be conducted on a four-year cycle subject to commitment from interested people.
- ❖ Interested persons obtain NCA support and attend MNA Official Measurer program to obtain Official Measurer accreditation.
- ❖ NCAs obtains required measurement equipment, templates etc for Official Measurer use.

TC to maintain 2.4mR Official Measurer database. All NCAs to advise Official Measurer details.

TC to support Thomas Jatsch IM accreditation application.

9 2.4mR Italy World Championship 2025

TC to assist 2.4mR Italy World Championship 2025 Organizing Authority with race documentation.

10 2.4mR World and Continental Championship Management

TC to review 2.4mR World and Continental Championship Management documentation.

- ❖ 2.4mR World and Continental Championship Management Manual 2024 v. 11
- ❖ Event Form
- ❖ Inspection Plan
- ❖ Haul-out Form
- ❖ Substitution Form